P1775R1

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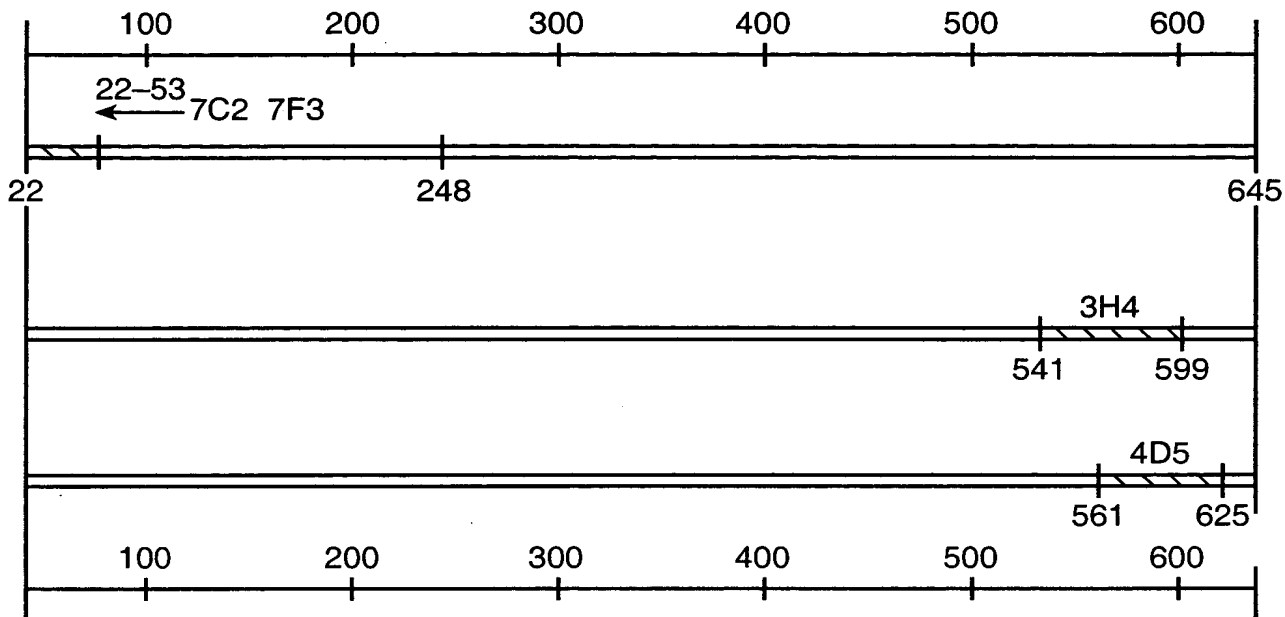Docket No. P1775R1D1

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3H4   aa 541–599
4D5   aa 529–625
7C2   aa 22–53
7F3   aa 22–53

3H4 epitope (SEQ ID NO:8) 58 residues

VEECRVLQGLPREYVNARHCLPCHPECQPQNGSVTCFGPEADQCVACAHYKDPPFCVAR
| |
541   599

4D5 epitope (SEQ ID NO:9) 64 residues

LPCHPECQPQNGSVTCFGPEADQCVACAHYKDPPFCVARCPSGVKPDLSYMPIWKFPDEEGACQP
| |
561   625

FIG._1

1	MELAALCRWGLLLALLPPGAA**STQVCTGTDMKLRLPA**
38	**SPETHLDMLRHLYQGC**QVVQGNLELTYLPTNASLSFL
75	QDIQEVQGYVLIAHNQVRQVPLQRLRIVRGTQLFEDN
112	YALAVLDNGDPLNNTTPVTGASPGGLRELQLRSLTEI
149	LKGGVLIQRNPQLCYQDTILWKDIFHKNNQLALTLID
186	TNRSRA

FIG._2

FIG._3

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FIG._4A

FIG._4B

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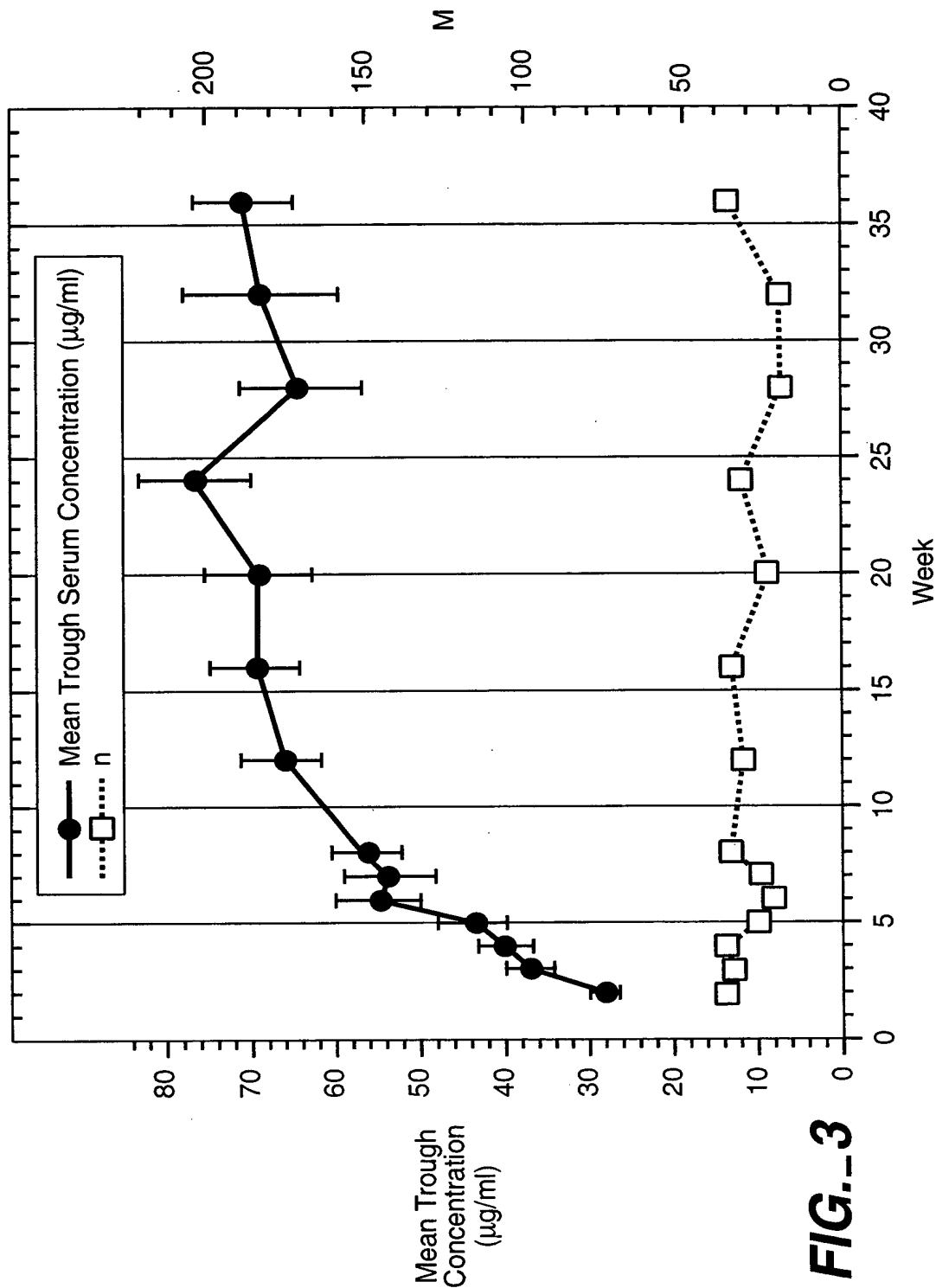**VARIABLE LIGHT**

```
           1         10        20           30             40
2C4        DTVMTQSHKIMSTSVGDRVSITC [KASQDVSIGVA----] WYQQRP
             **     **** *        *                       *

574        DIQMTQSPSSLSASVGDRVTITC [KASQDVSIGVA----] WYQQKP
                                    *     *   ****

hum kI     DIQMTQSPSSLSASVGDRVTITC [RASQSVSTSSYSYMH] WYQQKP


                      50        60        70        80
2C4        GQSPKLLIY [SASYRYT] GVPDRFTGSGSGTDFTFTISSVQA
             **                   *  *         *    *  *

574        GKAPKLLIY [SASYRYT] GVPSRFSGSGSGTDFTLTISSLQP
                *   ****

hum kI     GKAPKLLIY [AASSLES] GVPSRFSGSGSGTDFTLTISSLQP


                      90        100
2C4        EDLAVYYC [QQYYIYPYT] FGGGTKLEIK (SEQ ID NO:10)
             *  *                *   *

574        EDFATYYC [QQYYIYPYT] FGQGTKVEIK (SEQ ID NO:12)
                        ***

hum kI     EDFATYYC [QQYNSLPYT] FGQGTKVEIK (SEQ ID NO:14)
```
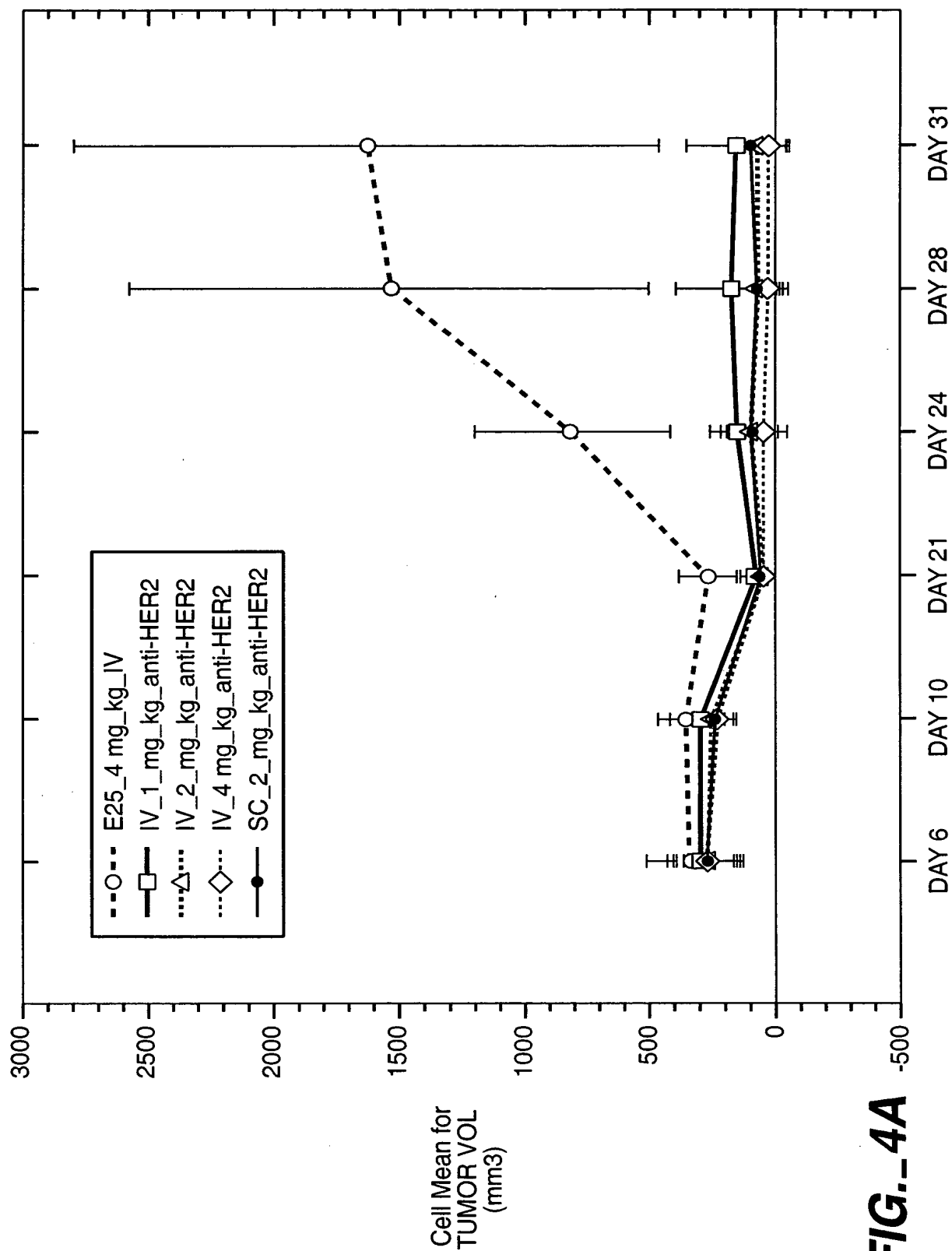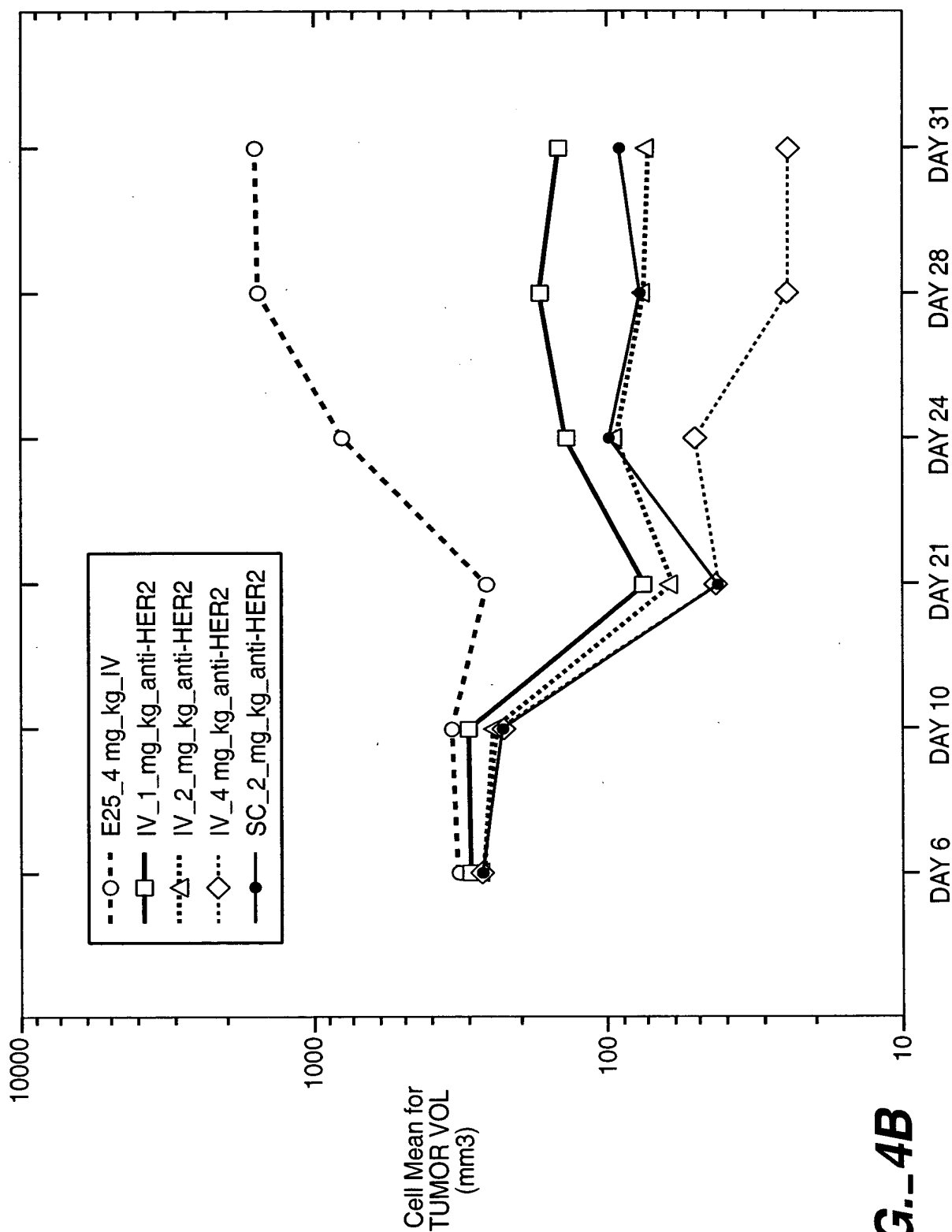
FIG._5A

VARIABLE HEAVY

```
           1         10        20           30             40
2C4        EVQLQQSGPELVKPGTSVKISCKAS [GFTFTDYTMD] WVKQS
             **   **   *   *  ***   **                   *

574        EVQLVESGGGLVQPGGSLRLSCAAS [GFTFTDYTMD] WVRQA
                                         ** *  *

humIII     EVQLVESGGGSVQPGGSLRLSCAAS [GFTFSSYAMS] WVRQA


                      50        60                70        80
2C4        HGKSLEWIG [DVNPNSGGSIYNQRFKG] KASLTVDRSSRIVYM
             *  *   **                   *** *  **** *

574        PGKGLEWVA [DVNPNSGGSIYNQRFKG] RFTLSVDRSKNTLYL
                *  * ****** ** ****      *. * *

humIII     PGKGLEWVS [VISGDGGSTYYADSVKG] RFTISRDDSKNTLYL


                      90        100        110
2C4        ELRSLTFEDTAVYYCAR [NLGPSFYFDY] WGQGTTLVTSS (SEQ ID NO:11)
             ***   **                       *

574        QMNSLRAEDTAVYYCAR [NLGPSFYFDY] WGQGTLVTVSS (SEQ ID NO:13)
                                ** ***

humIII     QMNSLRAEDTAVYYCAR [GRGGGS--DY] WGQGTLVTVSS (SEQ ID NO:15)
```

FIG._5B